



PTO/SB/08A (08-03)

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Substitute for form 1449/PTO

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

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Sheet 1 of 3

Complete if Known

Application Number	10/656,369
Filing Date	08 September 2003
First Named Inventor	Vitalii Silin
Art Unit	1641
Examiner Name	Nelson Yang
Attorney Docket Number	

U. S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (if known)			
	1	US- 4,071,409	Jan., 1978	Messing et al.	195/63
	2	US- 4,562,157	Dec., 1985	Lowe et al.	435/291
	3	US- 4,690,715	Sep., 1987	Allara et al.	148/6
	4	US- 4,908,112	Mar., 1990	Pace	204/299
	5	US- 4,973,493	Nov., 1990	Guire	427/2
	6	US- 4,987,032	Jan., 1991	Miyasaka et al.	
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	7	US- 5,096,807	Mar., 1992	Leaback	435/6
	8	US- 5,143,854	Sep., 1992	Pirrung et al.	438/518
	9	US- 5,154,808	Oct., 1992	Miyasaka et al.	
	10	US- 5,160,597	Nov., 1992	Colapicchioni et al	204/403
	11	US- 5,242,828	Sep., 1993	Bergstrom et al.	435/291
	12	US- 5,252,743	Oct., 1993	Barrett et al	548/303
	13	US- 5,294,369	Mar., 1994	Shigekawa et al.	252/313.
	14	US- 5,304,487	Apr., 1994	Wilding et al.	428/420.
	15	US- 5,342,692	Aug., 1994	Ribi	
	16	US- 5,384,261	Jan., 1995	Winkler et al.	436/518
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	1	WO9850773	Nov., 1994	WO.		
	2	WO9535505	Dec., 1995	WO.		
	3	WO 96/02830	Feb., 1996	WO.		
	4	WO 96/10178	Apr., 1996	WO.		
	5	WO 96/26432	Aug., 1996	WO.		
	6	WO 96/29629	Sep., 1996	WO.		

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				Examiner Name	Nelson Yangf
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	19	US- 5,412,087	May., 1995	McGall et al.	536/24.
	20	US- 5,429,708	Jul., 1995	Linford et al.	216/66
	21	US- 5,445,934	Aug., 1995	Fodor et al.	435/6
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	30	US- 5,603,351	Feb., 1997	Cherukuri et al	137/597
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	33	US- 5,622,826	Apr., 1997	Varma	435/6
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	35	US- 5,629,213	May., 1997	Kornguth et al.	436/518
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	7	WO 96/38726	Dec., 1996	WO.		
	8	WO 96/39937	Dec., 1996	WO.		
	9	WO 97/07429	Feb., 1997	WO.		
	10	WO 97/36681	Oct., 1997	WO.		
	12	WO 97/41424	Nov., 1997	WO.		
	13	WO 97/41425	Nov., 1997	WO.		

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	38	US- 5,677,195	Oct., 1997	Winkler et al.	436/518
	39	US- 5,677,196	Oct., 1997	Herron et al.	436/518.
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	41	US- 5,688,642	Nov., 1997	Chrissey et al.	435/6
	42	US- 5,700,642	Dec., 1997	Monforte et al.	435/6
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	14	WO9823948	Jun., 1998	WO.		
		WO9839481	Sep., 1998	WO.		

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NON PATENT LITERATURE DOCUMENTS			
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		SIGAL et al. (1996). A self-assembled monolayer for the binding and study of histidine-tagged proteins by surface plasmon resonance. Anal. Chem. 68:490-497.*	
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		SILZEL et al. (1998). Mass-sensing, multianalyte microarray immunoassay with imaging detection. Clin. Chem. 44(9):2036-2043.*	

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		NIEMEYER et al. (1994). Oligonucleotide-directed self-assembly of proteins: semisynthetic DNA-streptavidin hybrid molecules as connectors for the generation of macroscopic arrays	
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		STEINNICKE et al. "Biochemical characteristics of caspases-3, -6, -7, and -8" <i>J. Biol. Chem.</i> 272: 25719-25723 (1997).	

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		BECKER et al., "Fabrication of microstructures with high aspect ratios and great structural heights by synchrotron radiation lithography, galvanofarming, and plastic moulding	
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Art Unit 1641

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Substitute for form 1449/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use as many sheets as necessary)		Complete if Known			
		Application Number	10/656,369		
		Filing Date	08 September 2003		
		First Named Inventor	Vitalii Silin		
		Art Unit	1641		
		Examiner Name	Nelson Yang		
Sheet	5	of	7	Attorney Docket Number	

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
		HOCHULI et al., "Genetic approach to facilitate purification of recombinant proteins with a novel metal chelate adsorbent," Biotechnology, 6:1321-1325 (1988).	
		KAPLAN et al., "Selection of multiple human immunodeficiency virus type 1 variants that encode viral proteases with decreased sensitivity to an inhibitor of the viral protease	
		KORANT et al., "The HIV protease and therapies for aids," Advances in Experimental Medicine and Biology, 421:279-284 (1997).	
		LINFORD et al., "Alkyl monolayers on silicon prepared from 1-alkenes and hydrogen-terminated silicon," J. Am. Chem. Soc., 117:3145-3155 (1995).	
		LOEB et al., "Complete mutagenesis of the HIV-1 protease," Nature, 340:397-400 (1989).	
		LOUIS et al., "Autoprocessing of the HIV-1 protease using purified wild-type and mutated fusion proteins expressed at high levels in Escherichia coli," Eur. J. Biochem., 199:3	
		MRKSICH et al., "Controlling cell attachment on contoured surfaces with self-assembled monolayers of alkanethiolates on gold," Proc. Natl. Acad. Sci. USA, 93:10775-10778 (1996	
		MOORE et al., "Peptide substrates and inhibitors of the HIV-1 protease," Biochemical and Biophysical Research Communications, 159:420-425 (1989).	
		NOCK, "Reversible, site-specific immobilization of polyarginine-tagged fusio proteins on mica surfaces," FEBS, 414:233-238 (1997).	
		NOREN et al., "A general method for site-specific incorporation of unnatural amino acids into proteins," Science, 244:182-188 (1989).	

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		First Named Inventor	Vitalii Silin
		Art Unit	1641
		Examiner Name	Nelson Yang
Sheet 6	of 7	Attorney Docket Number	

NON PATENT LITERATURE DOCUMENTS			
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		PRIME et al., "Self-assembled organic monolayers: model systems for studying absorption of proteins at surfaces," Science, 252:1164-1167 (1991).	
		ROBERTS et al., "Rational design of peptide-based HIV proteinase inhibitors," Science, 248:358-361 (1990).	
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		SINGHVI et al., "Engineering cell shape and function," Science, 264:696-698 (1994).	
		SKALKA, "Retroviral proteases: first glimpses at the anatomy of a processing machine," Cell, 56:911-913 (1989).	
		SUNDBERG et al., "Spatially-addressable immobilization of macromolecules on solid supports," J. Am. Chem. Soc. 117:12050-12057 (1995).	
		WAGNER et al., ".omega.-functionalized self-assembled monolayers chemisorbed on ultraflat Au(111) surfaces for biological scanning probe microscopy in aqueous buffers," J. Vac	
		WAGNER et al., "Formation and in Situ modification of monolayers chemisorbed on ultraflat template-stripped gold surfaces," Langmuir, 11(10):3867-3875 (1995).	
		WAGNER et al., "Bioreactive self-assembled monolayers on hydrogen-passivated Si(111) as a new class of atomically flat substrates for biological scanning probe microscopy," Jo	
		WAGNER et al., "Covalent immobilization of native biomolecules onto Au(111) via N-hydroxysuccinimide ester functionalized self-assembled monolayers for scanning probe microscop	

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		WEINER et al., "Site-directed mutagenesis of double-stranded DNA by the polymerase chain reaction," Gene, 151:119-123 (1994).	
		WONDRAK et al., "Influence of flanking sequences on the dimer stability of human immunodeficiency virus type 1 protease," Biochemistry, 35:12957-12962 (1996). Wu et al., "Str	

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